## **Upcoming Space Shuttle Missions**

Updated May 29, 2009 (replaces April 14)

Kennedy Space Center Media Services

STS Mission No. (shuttle program flight no.)	STS-127 (127)	STS-128 (128)	<b>STS-129</b> (129)	STS-130* (130)
Orbiter (orbiter flight no.)	Endeavour/OV-105	Discovery/OV-103	Atlantis/OV-104	Endeavour/OV-105
	(23)	(37)	(31)	(24)
Primary Mission	29th ISS flight (2J/A) JEM	30th ISS flight (17A)	31st ISS flight (ULF3) –	32nd ISS flight (20A) -
	EF, ELM-ES, SLP-D2	MPLM, LMC	ELC1, ELC2	Tranquility Node 3, Cupola
Targeted Launch Date** Pad	<b>June 13, 2009</b>	<b>Aug. 6, 2009</b>	<b>Nov. 12, 2009</b>	<b>Feb. 4, 2010</b>
	39A	39A	39A	39A
<b>Estimated Launch Window</b>	5-10 minutes	5-10 minutes	5-10 minutes	5-10 minutes
Mission Duration	16 days*	11 days*	15 days*	11 days*
Inclination/ Orbital Insertion Altitude	51.6 degrees	51.6 degrees	51.6 degrees	51.6 degrees
	122 nautical miles	122 nautical miles	122 nautical miles	122 nautical miles
Crew Members (no. of shuttle flights)	Cdr: Mark Polansky (3) Plt: Douglas Hurley (1) MS: Christopher Cassidy (1) MS: Thomas Marshburn (1) MS: David Wolf (4) MS: Julie Payette (CSA) (2) Up to ISS: Timothy Kopra (1) Down from ISS: Koichi Wakata (JAXA) (3)	Cdr: Rick Sturckow (4) Plt: Kevin Ford (1) MS: Danny Olivas (2) MS: Patrick Forrester (3) MS: Jose Hernandez (1) MS: Christer Fuglesang (ESA) (2) Up to ISS: Nicole Stott (1) Down from ISS: Timothy Kopra (1)	Cdr: Charlie Hobaugh (3) Plt: Barry Wilmore (1) MS: Robert Satcher (1) MS: Michael Foreman (2) MS: Randy Bresnik (1) MS: Leland Melvin (2)  Down from ISS: Nicole Stott (1)	Cdr: George Zamka (2) Plt: Terry Virts (1) MS: Robert Behnken (2) MS: Nicholas Patrick (2) MS: Kathryn Hire (2) MS: Stephen Robinson (4)

<sup>\*\*</sup>Official launch dates are set at the Flight Readiness Review.

<sup>\*</sup>Information was added since the last chart.